

Title (en)  
CONCAVE ULTRASOUND TRANSDUCERS AND 3D ARRAYS

Title (de)  
KONKAVE ULTRASCHALLWANDLER UND 3D-ARRAYS

Title (fr)  
TRANSDUCTEURS À ULTRASONS CONCAVES ET RÉSEAUX 3D

Publication  
**EP 2627257 A2 20130821 (EN)**

Application  
**EP 11833340 A 20111012**

Priority  
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Abstract (en)  
[origin: US2012095343A1] A Multiple Aperture Ultrasound Imaging (MAUI) probe or transducer is uniquely capable of simultaneous imaging of a region of interest from separate apertures of ultrasound arrays. Some embodiments provide systems and methods for designing, building and using ultrasound probes having continuous arrays of ultrasound transducers which may have a substantially continuous concave curved shape in two or three dimensions (i.e. concave relative to an object to be imaged). Other embodiments herein provide systems and methods for designing, building and using ultrasound imaging probes having other unique configurations, such as adjustable probes and probes with variable configurations.

IPC 8 full level  
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CPC (source: EP KR US)  
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**A61B 8/14** (2013.01 - EP US); **B06B 1/0622** (2013.01 - EP US); **G01S 7/52084** (2013.01 - EP US)

Cited by  
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**US 2012095343 A1 20120419**; **US 9247926 B2 20160202**; EP 2627257 A2 20130821; EP 2627257 A4 20141210; EP 2627257 B1 20190417;  
EP 3563768 A2 20191106; EP 3563768 A3 20200212; JP 2013539715 A 20131028; JP 2017121496 A 20170713; JP 6092109 B2 20170308;  
JP 6438985 B2 20181219; KR 101906838 B1 20181011; KR 20140034114 A 20140319; TW 201231018 A 20120801; TW I520716 B 20160211;  
US 10835208 B2 20201117; US 11723626 B2 20230815; US 2015157294 A1 20150611; US 2016095579 A1 20160407;  
US 2021068787 A1 20210311; US 2024108311 A1 20240404; US 9220478 B2 20151229; WO 2012051308 A2 20120419;  
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US 201514595083 A 20150112; US 201514965704 A 20151210; US 202017099116 A 20201116; US 202318344278 A 20230629